

Title (en)  
THREE-DIMENSIONAL IMAGE RECONSTRUCTION USING MULTI-LAYER DATA ACQUISITION

Title (de)  
DREIDIMENSIONALE BILDREKONSTRUKTION MIT MEHRSCICHTDATENERFASSUNG

Title (fr)  
RECONSTRUCTION D'IMAGE TRIDIMENSIONNELLE PAR L'ACQUISITION DE DONNÉES MULTICOUCHES

Publication  
**EP 3559741 B1 20210922 (EN)**

Application  
**EP 17883068 A 20171221**

Priority  
• US 201662437881 P 20161222  
• IL 2017051374 W 20171221

Abstract (en)  
[origin: WO2018116304A1] A camera, including: two imaging systems each comprising a different optical path corresponding to a different viewing angle of an object; one or more illumination sources; a mask disposed with multiple pairs of apertures, wherein each aperture of each aperture pair corresponds to a different one of the imaging systems; at least one detector configured to acquire multiple image pairs of the object from the two imaging systems via the multiple pairs of apertures; and a processor configured to produce from the multiple acquired image pairs a multi-layer three dimensional reconstruction of the object.

IPC 8 full level  
**G03B 35/12** (2021.01); **A61B 5/00** (2006.01); **H04N 13/00** (2018.01); **H04N 13/239** (2018.01); **H04N 13/257** (2018.01); **H04N 13/296** (2018.01)

CPC (source: EP US)  
**A61B 5/0075** (2013.01 - EP US); **A61B 5/0077** (2013.01 - US); **A61B 5/443** (2013.01 - EP US); **G03B 35/12** (2013.01 - EP); **G06T 7/0012** (2013.01 - US); **G06T 7/514** (2016.12 - US); **G06T 7/593** (2016.12 - US); **H04N 13/156** (2018.04 - US); **H04N 13/167** (2018.04 - US); **H04N 13/239** (2018.04 - EP US); **H04N 13/254** (2018.04 - US); **H04N 13/257** (2018.04 - EP US); **H04N 13/296** (2018.04 - EP US); **H04N 23/631** (2023.01 - US); **G06T 2207/10012** (2013.01 - US); **H04N 2013/0077** (2013.01 - US); **H04N 2013/0081** (2013.01 - EP US)

Cited by  
WO2022179779A1; WO2022179780A1; BE1027624B1; BE1027625B1; BE1027624A1; BE1027625A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (application)  
**IL 2017051374 W 20171221**; EP 17883068 A 20171221; US 201716472981 A 20171221